



Summary of Costs	
	Total - 2006 Dollars
Option 1 - Full Reconstruction	\$ 24,727,032
Option 2- Rehab with widening to 24'	\$ 10,165,987
Option 3 - Rehab with no widening	\$ 5,698,042
Option 4 - Spot Improvments	\$ 187,501
Option 5 - Snow Storage Widening	\$ 450,528
<b>Option 6 - Recommended in Corridor Study</b>	<b>\$ 15,500,000</b>



## Summary of Costs

	Roadway - 2006 Dollars	Right of Way - 2006 Dollars	Total - 2006 Dollars	Total - 2012 Dollars	Total Cost including 12% Indirect Cost Recovery - 2012 Dollars
Option 1 - Full Reconstruction	\$ 22,711,542	\$ 2,015,490	\$ 24,727,032		
Option 2- Rehab with widening to 24'	\$ 9,832,487	\$ 333,500	\$ 10,165,987		
Option 3 - Rehab with no widening	\$ 5,604,001	\$ 94,041	\$ 5,698,042		
Option 4 - Spot Improvements	\$ 187,501	\$ -	\$ 187,501		
Option 5 - Snow Storage Widening	\$ 444,778	\$ 5,750	\$ 450,528		
Option 6 - Corridor Plan	\$ 15,280,000	\$ 219,000	\$ 15,500,000	18,510,000	20,730,000
Corridor Plan Re-align RP 8	\$ 890,000	\$ 6,000	\$ 900,000	1,070,000	1,200,000
Corridor Plan Re-align RP 11	\$ 1,110,000	\$ 6,000	\$ 1,110,000	1,330,000	1,490,000
Corridor Plan Segment 1 - RP 7 to RP 12	\$ 4,970,000	\$ 52,000	\$ 5,020,000	5,990,000	6,710,000
Corridor Plan Segment 2 - RP 12 to RP 17	\$ 4,910,000	\$ 161,000	\$ 5,070,000	6,050,000	6,780,000
Corridor Plan Segment 3 - RP 17 to RP 20.1	\$ 6,330,000	\$ 6,000	\$ 6,330,000	7,560,000	8,470,000

Notes: 1) Costs inflated by 3% per year to obtain 2012 costs 2) Indirect Cost Recovery rate estimated, and may vary from year to year



**Alternative Name:** Pipe Creek Road - Option 1 Full Reconstruct  
RP 6.1 - RP 20.1

Category	Line Number <sup>1</sup>	Item Description	Quantity	Units	Unit Cost	Extended Cost	Notes
Demolition and Removal	1	Clearing and Grubbing	149	Acre	\$3,500.00	\$521,500	
	2	Demolition of Buildings	1	Each	\$5,000.00	\$5,000	
	3	Demolition of Bridges	1	Each	\$30,000.00	\$30,000	
	4	Demolition and Removal Contingency					\$83,475 15%
Earthwork and Grading	5	Unclassified Excavation	600,000	yd3	\$10.00	\$6,000,000	From Model
	6	Embankment in place	239,000	yd3	\$10.00	\$0	Pay for difference between cut and fill only (using 60% of cut)
	7	Earthwork and Grading Contingency					\$900,000 15%
General Drainage	8	Pipe Culverts, Catch Basins, etc.	1	Lump	\$456,780.00	\$456,780	Assumed replacing all crossing structures
	9	Drainage Contingency					\$45,678 10%
Pavement (Mainline, Ramps, and CDs)	10	Pavement and Base	73,920	ft	\$43.24	\$3,196,301	Assume 3.6" superpave & 8" crushed aggregate
	11	Paving Contingency					\$479,445 15%
Structures	12	Bridge (2nd Level Concrete)	1,312	ft <sup>2</sup>	\$110.00	\$144,320	
	13	Retaining Walls	38,610	ft <sup>2</sup>	\$70.00	\$2,702,700	
	14	Structure Contingency					\$427,053 15%
General Utility Adjustments/Relocations	15	Adjust / Relocate Utility	1	Lump	\$300,000.00	\$300,000	Assumed to be 5% of earthwork and grading
	16	General Utility Adjustment / Relocation Contingency					\$45,000 15%
	17	Signing	1	Lump	\$40,000.00	\$40,000	
	18	Striping	73,920	ft	\$1.83	\$135,274	assume 4-4" stripes
	19	Signing/Striping Contingency					\$26,291 15%
	20	Guardrail	16,600	ft	\$20.00	\$332,000	
	21	Landscaping	109	Acre	\$4,050.00	\$441,450	area between edge of pavement and cut/fill line
	22	Fencing	138,619	ft	\$2.60	\$360,409	
	23	General Other Contingency					\$113,386 10%
	29	Subtotal					\$16,786,062
	30	10% Mobilization				\$1,678,606	
	31	2.5% Traffic Control				\$419,652	
	32	Traffic Control Contingency					\$41,965 10%
	33	Subtotal					\$18,926,285
	34	10% Design Egr.				\$1,892,628	
	35	10% Const. Egr.				\$1,892,628	
<b>SUBTOTAL</b>	36	<b>Subtotal</b>					<b>\$22,711,542</b>
Right-of-Way	37	Administration	50	Parcel	\$5,000	\$250,000	
	38	USFS	180	Acre	\$0	\$0	
	39	Relocation (out buildings)	1	Each	\$20,000	\$20,000	
	40	ROW From Private Entities	15	Acre	\$100,000	\$1,482,600	Acquisition
	41	R/W Contingency					\$262,890 15%
	42	<b>Total Roadway Elements--2006 USD</b>					<b>\$24,727,032</b>



Alternative Name: Pipe Creek Road - Option 2-24' Widening Rehab  
RP 6.1 - RP 20.1

Category	Line Number <sup>1</sup>	Item Description	Quantity	Units	Unit Cost	Extended Cost	Notes
Demolition and Removal	1	Clearing and Grubbing	78	Acre	\$3,500.00	\$273,000	
	2	Demolition of Buildings	0	Each	\$5,000.00	\$0	
	3	Demolition of Bridges	1	Each	\$30,000.00	\$30,000	
	4	Demolition and Removal Contingency				\$45,450	15%
Earthwork and Grading	5	Unclassified Excavation	130,796	yd3	\$10.00	\$1,307,960	From Model
	6	Embankment in place	115,449	yd3	\$10.00	\$369,714	Pay for difference between cut and fill only (using 60% of cut)
	7	Earthwork and Grading Contingency				\$251,651	15%
General Drainage	8	Pipe Culverts, Catch Basins, etc.	1	Lump	\$456,780.00	\$456,780	Assumed replacing all crossing structures
	9	Drainage Contingency				\$45,678	10%
Pavement (Mainline, Ramps, and CDs)	10	Pavement and Base	73,920	ft	\$29.79	\$2,202,077	Assume 3.6" superpave & 8" crushed aggregate
	11	Paving Contingency				\$330,312	15%
Structures	12	Bridge (2nd Level Concrete)	1	Each	\$30,000.00	\$30,000	cost of fixes identified in UDFS inspection report
	13	Retaining Walls	12,955	ft <sup>2</sup>	\$70.00	\$906,850	
	14	Structure Contingency				\$140,528	15%
General Utility Adjustments/Relocations	15	Adjust / Relocate Utility	1	Lump	\$83,883.70	\$83,884	Assumed to be 5% of earthwork and grading
	16	General Utility Adjustment / Relocation Contingency				\$12,583	15%
	17	Signing	1	Lump	\$40,000.00	\$40,000	
	18	Striping	73,920	ft	\$0.92	\$68,006	Assume 1-double yellow center line
	19	Signing/Striping Contingency				\$16,201	15%
	20	Guardrail	14,046	ft	\$20.00	\$280,920	
	21	Landscaping	78	Acre	\$4,050.00	\$315,900	area between edge of pavement and cut/fill line
	22	Fencing	0	ft	\$2.60	\$0	
	23	General Other Contingency				\$59,682	10%
	29	Subtotal				\$7,267,175	
	30	10% Mobilization				\$726,717	
	31	2.5% Traffic Control				\$181,679	
	32	Traffic Control Contingency				\$18,168	10%
	33	Subtotal				\$8,193,739	
	34	10% Design Egr.				\$819,374	
	35	10% Const. Egr.				\$819,374	
<b>SUBTOTAL</b>	<b>36</b>	<b>Subtotal</b>				<b>\$9,832,487</b>	
Right-of-Way	37	Administration	25	Parcel	\$5,000	\$125,000	
	38	USFS	71	Acre	\$0	\$0	
	39	Relocation (out buildings)	0	Each	\$20,000	\$0	
	40	ROW From Private Entities	7	Acre	\$25,000	\$165,000	Easement
	41	R/W Contingency				\$43,500	15%
	42	<b>Total Roadway Elements--2006 USD</b>				<b>\$10,165,987</b>	



Alternative Name: Pipe Creek Road - Option 3 Rehab with no widening  
Assume 3" pavement overlay, shallowing out fill slopes not by pipe creek, install guardrail as necessary, no widening

RP 6.1 - RP 20.1

Category	Line Number <sup>1</sup>	Item Description	Quantity	Units	Unit Cost	Extended Cost	Notes
Demolition and Removal	1	Clearing and Grubbing	15	Acre	\$3,500.00	\$51,891	
	2	Demolition of Buildings	0	Each	\$5,000.00	\$0	
	3	Demolition of Bridges	0	Each	\$30,000.00	\$0	
	4	Demolition and Removal Contingency				\$7,784	15%
Earthwork and Grading	5	Unclassified Excavation	0	yd3	\$10.00	\$0	From Model
	6	Embankment in Place	52,657	yd3	\$10.00	\$526,565	
	7	Earthwork and Grading Contingency				\$78,985	15%
General Drainage	8	Pipe Culverts, Catch Basins, etc.	0	Lump	\$456,780.00	\$0	
	9	Drainage Contingency				\$0	10%
Pavement (Mainline, Ramps, and CDs)	10	Pavement and Base	73,920	ft	\$26.30	\$1,944,096	Assumes 3.6" superpave overlay
	11	Paving Contingency				\$291,614	15%
Structures	12	Bridge (2nd Level Concrete)	0	ft <sup>2</sup>	\$110.00	\$0	
	13	Retaining Walls	8,100	ft <sup>2</sup>	\$70.00	\$567,000	
	14	Structure Contingency				\$85,050	15%
General Utility Adjustments/Relocations	15	Adjust / Relocate Utility	0	Lump	\$0.00	\$0	Assumed to be 5% of earthwork and grading
	16	General Utility Adjustment / Relocation Contingency				\$0	15%
	17	Signing	1	Lump	\$50,000.00	\$50,000	
	18	Striping	73,920	ft	\$0.92	\$67,637	Assume 1-double yellow center line
	19	Signing/Striping Contingency				\$17,646	15%
	20	Guardrail	16,574	ft	\$20.00	\$331,477	
	21	Landscaping	14	Acre	\$4,050.00	\$56,042	area between edge of pavement and cut/fill line
	22	Fencing	0	ft	\$2.60	\$0	
	23	General Other Contingency				\$38,752	10%
	29	Subtotal				\$4,114,538	
	30	10% Mobilization				\$411,454	
	31	3.5% Traffic Control				\$144,009	
	32	Traffic Control Contingency				\$14,401	10%
	33	Subtotal				\$4,670,001	
	34	10% Design Egr.				\$467,000	
	35	10% Const. Egr.				\$467,000	
<b>SUBTOTAL</b>	<b>36</b>	<b>Subtotal</b>				<b>\$5,604,001</b>	
Right-of-Way	37	Administration	4	Parcel	\$5,000	\$20,000	
	40	USFS-easement	12	Acre	\$0	\$0	
	42	easement From Private Entities	2	Acre	\$25,000	\$61,775	Easement
	45	R/W Contingency				\$12,266	15%
	<b>46</b>	<b>Total Roadway Elements--2006 USD</b>				<b>\$5,698,042</b>	



Alternative Name: Pipe Creek Road - Option 4 Spot Improvements  
RP 6.1 - RP 20.1

Category	Line Number <sup>1</sup>	Item Description	Quantity	Units	Unit Cost	Extended Cost	Notes
Demolition and Removal	1	Clearing and Grubbing	0	Acre	\$3,500.00	\$0	
	2	Demolition of Buildings	0	Each	\$5,000.00	\$0	
	3	Demolition of Bridges	0	Each	\$30,000.00	\$0	
	4	Demolition and Removal Contingency				\$0	15%
Earthwork and Grading	5	Unclassified Excavation	0	yd3	\$10.00	\$0	From Model
	6	Embankment in Place	0	yd3	\$10.00	\$0	Pay for difference between cut and fill only (using 60% of cut)
	7	Earthwork and Grading Contingency				\$0	15%
General Drainage	8	Pipe Culverts, Catch Basins, etc.	0	Lump	\$452,780.00	\$0	Assumed replacing all crossing structures
	9	Drainage Contingency				\$0	10%
Pavement (Mainline, Ramps, and CDs)	10	Pavement and Base	0	ft	\$47.51	\$0	
	11	Paving Contingency				\$0	15%
Structures	12	Bridge (2nd Level Concrete)	0	ft <sup>2</sup>	\$110.00	\$0	
	13	Retaining Walls	0	ft <sup>2</sup>	\$70.00	\$0	
	14	Structure Contingency				\$0	15%
General Utility Adjustments/Relocations	15	Adjust / Relocate Utility	0	Lump	\$0.00	\$0	Assumed to be 5% of earthwork and grading
	16	General Utility Adjustment / Relocation Contingency				\$0	15%
	17	Signing	1	Lump	\$50,000.00	\$50,000	
	18	Striping	73,920	ft	\$0.92	\$67,637	Assume 1-double yellow center line
	19	Signing/Striping Contingency				\$17,646	15%
	20	Guardrail	0	ft	\$20.00	\$0	
	21	Landscaping	0	Acre	\$4,050.00	\$0	
	22	Fencing	0	ft	\$2.60	\$0	
	23	General Other Contingency				\$0	10%
	29	Subtotal				\$135,282	
	30	10% Mobilization				\$13,528	
	31	5% Traffic Control				\$6,764	
	32	Traffic Control Contingency				\$676	10%
	33	Subtotal				\$156,251	
	34	10% Design Egr.				\$15,625	
	35	10% Const. Egr.				\$15,625	
<b>SUBTOTAL</b>	36	<b>Subtotal</b>				<b>\$187,501</b>	
Right-of-Way	37	Administration	0	Parcel	\$5,000	\$0	
	40	USFS	0	Acres	\$25,000	\$0	
	42	ROW From Private Entities	0	Acres	\$25,000	\$0	Easement
	45	R/W Contingency				\$0	15%
	46	<b>Total Roadway Elements--2006 USD</b>				<b>\$187,501</b>	



Alternative Name: Pipe Creek Road - Option 5 Snow Storage Widening  
RP 6.1 - RP 20.1

Category	Line Number <sup>1</sup>	Item Description	Quantity	Units	Unit Cost	Extended Cost	Notes
Demolition and Removal	1	Clearing and Grubbing	7	Acre	\$3,500.00	\$23,100	
	2	Demolition of Buildings	0	Each	\$5,000.00	\$0	
	3	Demolition of Bridges	0	Each	\$30,000.00	\$0	
	4	Demolition and Removal Contingency					\$3,465 15%
Earthwork and Grading	5	Unclassified Excavation	4100	yd3	\$10.00	\$41,000	RP 10.9 - 11.1 - Left
	5	Unclassified Excavation	900	yd3	\$10.00	\$9,000	RP 14.32 - RP 14.35 - Right
	5	Unclassified Excavation	900	yd3	\$10.00	\$9,000	RP 14.6 - 14.7 - Right
	5	Unclassified Excavation	400	yd3	\$10.00	\$4,000	RP 15.1 - RP 15.2 - Right
	5	Unclassified Excavation	650	yd3	\$10.00	\$6,500	RP 15.3 - RP 15.4 - Right
	5	Unclassified Excavation	1300	yd3	\$10.00	\$13,000	RP 15.41 - RP 15.43 - Right
	5	Unclassified Excavation	1725	yd3	\$10.00	\$17,250	RP 15.46 - RP 15.54 - Right
	5	Unclassified Excavation	2900	yd3	\$10.00	\$29,000	RP 15.9 - RP 16.1 - Right
	5	Unclassified Excavation	200	yd3	\$10.00	\$2,000	RP 16.15 - RP 16.17 - Right
	5	Unclassified Excavation	500	yd3	\$10.00	\$5,000	RP 16.7 - RP 16.8 - Left & Right
	5	Unclassified Excavation	5200	yd3	\$10.00	\$52,000	RP 17.9 - 18.2 - Right
	5	Unclassified Excavation	620	yd3	\$10.00	\$6,200	RP 18.32 - RP 18.36 - Left & Right
	5	Unclassified Excavation	150	yd3	\$10.00	\$1,500	RP 18.69 - RP 18.7 - Right
	5	Unclassified Excavation	250	yd3	\$10.00	\$2,500	RP 18.6 - RP 18.7 - Right
	5	Unclassified Excavation	5800	yd3	\$10.00	\$58,000	RP 18.8 - RP 20.0 - Left
	5	Unclassified Excavation - Total	25,595	yd3	\$10.00	\$255,950	From Model
	6	Embankment in Place	0	yd3	\$10.00	\$0	Pay for difference between cut and fill only (using 60% of cut)
	7	Earthwork and Grading Contingency					\$38,393 15%
General Drainage	8	Pipe Culverts, Catch Basins, etc.	0	Lump	\$452,780.00	\$0	Assumed replacing all crossing structures
	9	Drainage Contingency					\$0 10%
Pavement (Mainline, Ramps, and CDs)	10	Pavement and Base	0	ft	\$47.51	\$0	
	11	Paving Contingency					\$0 15%
Structures	12	Bridge (2nd Level Concrete)	0	ft <sup>2</sup>	\$110.00	\$0	
	13	Retaining Walls	0	ft <sup>2</sup>	\$70.00	\$0	
	14	Structure Contingency					\$0 15%
General Utility Adjustments/Relocations	15	Adjust / Relocate Utility	0	Lump	\$12,797.50	\$0	Assumed to be 5% of earthwork and grading
	16	General Utility Adjustment / Relocation Contingency					\$0 15%
	17	Signing	0	Lump	\$50,000.00	\$0	
	18	Striping	0	ft	\$0.92	\$0	Assume 1-double yellow center line
	19	Signing/Striping Contingency					\$0 15%
	20	Guardrail	0	ft	\$20.00	\$0	
	21	Landscaping	0	Acre	\$4,050.00	\$0	
	22	Fencing	0	ft	\$2.60	\$0	
	23	General Other Contingency					\$0 10%
	29	Subtotal					\$320,908
	30			10%	Mobilization	\$32,091	
	31			5%	Traffic Control	\$16,045	
	32	Traffic Control Contingency					\$1,605 10%
	33	Subtotal					\$370,648
	34			10%	Design Egr.	\$37,065	
	35			10%	Const. Egr.	\$37,065	
<b>SUBTOTAL</b>	<b>36</b>	<b>Subtotal</b>					<b>\$444,778</b>
Right-of-Way	37	Administration	1	Parcel	\$5,000	\$5,000	
	40	USFS	7	Acres	\$0	\$0	
	42	ROW From Private Entities	0	Acres	\$25,000	\$0	Easement
	45	R/W Contingency					\$750 15%
	<b>46</b>	<b>Total Roadway Elements--2006 USD</b>					<b>\$450,528</b>



Alternative Name: Pipe Creek Road - Corridor Plan  
RP 7 - RP 20.1

Category	Line Number <sup>1</sup>	Item Description	Quantity	Units	Unit Cost	Extended Cost	Notes
Demolition and Removal	1	Clearing and Grubbing	72	Acre	\$3,500.00	\$252,000	
	2	Demolition of Buildings	0	Each	\$5,000.00	\$0	
	3	Demolition of Bridges	0	Each	\$30,000.00	\$0	
	4	Demolition and Removal Contingency				\$37,800	15%
Earthwork and Grading	5	Unclassified Excavation	222,609	yd3	\$10.00	\$2,226,090	From Model
	6	Embankment in place	87,863	yd3	\$10.00	\$0	Pay for difference between cut and fill only (using 60% of cut)
	7	Earthwork and Grading Contingency				\$556,523	25%
General Drainage	8	Pipe Culverts, Catch Basins, etc.	1	Lump	\$456,780.00	\$235,434	Assumed replacing all crossing structures
	9	Drainage Contingency				\$47,087	20%
Pavement (Reconstruct)	10	Pavement and Base	2,000	ft	\$40.68	\$81,360	Assume 3.6" superpave & 8" crushed aggregate
Pavement (24' Widening)	11	Pavement and Base	50,800	ft	\$29.79	\$1,513,332	Assume 3.6" superpave & 8" crushed aggregate
Pavement (22' Widening)	12	Pavement and Base	16,368	ft	\$26.74	\$437,680	Assume 3.6" superpave & 8" crushed aggregate
Pavement Rehabilitation	13	FDR w/ Foam mix	67,168	ft	\$21.11	\$1,417,916	Assume FDR w/ foam mix w 3% PG 58-28 PG binder and 1% cement
	14	Paving Contingency				\$508,093	25%
Structures	15	Bridge (2nd Level Concrete)	1	Each	\$30,000.00	\$30,000	cost of fixes identified in UDFS inspection report
	16	Retaining Walls	38,472	ft <sup>2</sup>	\$70.00	\$2,693,040	
	17	Structure Contingency				\$544,608	20%
General Utility Adjustments/Relocations	18	Adjust / Relocate Utility	1	Lump	\$111,304.50	\$111,305	Assumed to be 5% of earthwork and grading
	19	General Utility Adjustment / Relocation Contingency				\$16,696	15%
	20	Signing	1	Lump	\$40,000.00	\$40,000	
	21	Striping	69,168	ft	\$1.00	\$69,168	Assume 1-double yellow center line
	22	Signing/Striping Contingency				\$16,375	15%
	23	Guardrail	4,804	ft	\$20.00	\$96,080	
	24	Landscaping	72	Acre	\$4,050.00	\$291,600	area between edge of pavement and cut/fill line
	25	Fencing	0	ft	\$2.60	\$0	
	26	General Other Contingency				\$58,152	15%
	32	Subtotal				\$11,280,339	
	33	10% Mobilization				\$1,128,034	
	34	2.5% Traffic Control				\$282,008	
	35	Traffic Control Contingency				\$42,301	15%
	36	Subtotal				\$12,732,682	
	37	10% Design Egr.				\$1,273,268	
	38	10% Const. Egr.				\$1,273,268	
<b>SUBTOTAL</b>	<b>39</b>	<b>Subtotal</b>				<b>\$15,279,219</b>	
Right-of-Way	40	Administration	18	Parcel	\$5,000	\$90,000	
	41	USFS	100	Acre	\$0	\$0	
	42	Relocation (out buildings)	0	Each	\$20,000	\$0	
	43	ROW From Private Entities	4	Acre	\$25,000	\$100,000	Easement
	44	R/W Contingency				\$28,500	15%
	<b>45</b>	<b>Total Roadway Elements--2006 USD</b>				<b>\$15,497,719</b>	





Alternative Name: Pipe Creek Road - Corridor Plan  
RP 8 Re-alignment  
Length of Re-Alignment = 1000 ft

Category	Line Number <sup>1</sup>	Item Description	Quantity	Units	Unit Cost	Extended Cost	Notes
Demolition and Removal	1	Clearing and Grubbing	5	Acre	\$3,500.00	\$17,850	
	2	Demolition of Buildings	0	Each	\$5,000.00	\$0	
	3	Demolition of Bridges	0	Each	\$30,000.00	\$0	
	4	Demolition and Removal Contingency				\$2,678	15%
Earthwork and Grading	5	Unclassified Excavation	3,500	yd3	\$10.00	\$35,000	From Model
	6	Embankment in place	0	yd3	\$10.00	\$0	Pay for difference between cut and fill only (using 60% of cut)
	7	Earthwork and Grading Contingency				\$8,750	25%
General Drainage	8	Pipe Culverts, Catch Basins, etc.	0	Lump	\$456,780.00	\$235,434	Assumed replacing all crossing structures
	9	Drainage Contingency				\$47,087	20%
Pavement (Reconstruct)	10	Pavement and Base	1,000	ft	\$40.68	\$40,680	Assume 3.6" superpave & 8" crushed aggregate
Pavement (24' Widening)	11	Pavement and Base	0	ft	\$29.79	\$0	Assume 3.6" superpave & 8" crushed aggregate
Pavement (22' Widening)	12	Pavement and Base	0	ft	\$26.74	\$0	Assume 3.6" superpave & 8" crushed aggregate
	13	Paving Contingency				\$10,170	25%
Structures	14	Bridge (2nd Level Concrete)	0	ft <sup>2</sup>	\$110.00	\$0	
	15	Retaining Walls	1,614	ft <sup>2</sup>	\$70.00	\$112,980	
	16	Structure Contingency				\$22,596	20%
General Utility Adjustments/Relocations	17	Adjust / Relocate Utility	1	Lump	\$1,750.00	\$1,750	Assumed to be 5% of earthwork and grading
	18	General Utility Adjustment / Relocation Contingency				\$263	15%
	19	Signing	1	Lump	\$2,000.00	\$2,000	
	20	Striping	1,000	ft	\$0.92	\$920	Assume 1-double yellow center line
	21	Signing/Striping Contingency				\$438	15%
	22	Guardrail	300	ft	\$20.00	\$6,000	
	23	Landscaping	5	Acre	\$4,050.00	\$18,225	area between edge of pavement and cut/fill line
	24	Fencing	0	ft	\$2.60	\$0	
	25	General Other Contingency				\$3,634	15%
	31	Subtotal				\$566,454	
	32	Mobilization				\$113,291	
	33	Traffic Control				\$56,645	
	34	Traffic Control Contingency				\$8,497	15%
	35	Subtotal				\$744,886	
	36	Design Egr.				\$74,489	
	37	Const. Egr.				\$74,489	
<b>SUBTOTAL</b>	<b>38</b>	<b>Subtotal</b>				<b>\$893,864</b>	
Right-of-Way	39	Administration	1	Parcel	\$5,000	\$5,000	
	40	USFS	5	Acre	\$0	\$0	
	41	Relocation (out buildings)	0	Each	\$20,000	\$0	
	42	ROW From Private Entities	0	Acre	\$25,000	\$0	Easement
	43	R/W Contingency				\$750	15%
	<b>44</b>	<b>Total Roadway Elements--2006 USD</b>				<b>\$899,614</b>	



Alternative Name: Pipe Creek Road - Corridor Plan  
RP 11 Re-alignment  
Length of Re-Alignment = 1000 ft

Category	Line Number	Item Description	Quantity	Units	Unit Cost	Extended Cost	Notes
Demolition and Removal	1	Clearing and Grubbing		4 Acre	\$3,500.00	\$15,400	
	2	Demolition of Buildings		0 Each	\$5,000.00	\$0	
	3	Demolition of Bridges		0 Each	\$30,000.00	\$0	
	4	Demolition and Removal Contingency					\$2,310 15%
Earthwork and Grading	5	Unclassified Excavation	14,640	yd3	\$10.00	\$146,400	From Model
	6	Embankment in place	260	yd3	\$10.00	\$2,600	Pay for difference between cut and fill only (using 60% of cut)
	7	Earthwork and Grading Contingency					\$36,600 25%
General Drainage	8	Pipe Culverts, Catch Basins, etc.		0 Lump	\$456,780.00	\$235,434	Assumed replacing all crossing structures
	9	Drainage Contingency					\$47,087 20%
Pavement (Reconstruct)	10	Pavement and Base	1,000	ft	\$40.68	\$40,680	Assume 3.6" superpave & 8" crushed aggregate
Pavement (24' Widening)	11	Pavement and Base		0 ft	\$29.79	\$0	Assume 3.6" superpave & 8" crushed aggregate
Pavement (22' Widening)	12	Pavement and Base		0 ft	\$26.74	\$0	Assume 3.6" superpave & 8" crushed aggregate
	13	Paving Contingency					\$10,170 25%
Structures	14	Bridge (2nd Level Concrete)		0 ft <sup>2</sup>	\$110.00	\$0	
	15	Retaining Walls	1,614	ft <sup>2</sup>	\$70.00	\$112,980	
	16	Structure Contingency					\$22,596 20%
General Utility Adjustments/Relocations	17	Adjust / Relocate Utility		0 Lump	\$7,320.00	\$0	Assumed to be 5% of earthwork and grading
	18	General Utility Adjustment / Relocation Contingency					\$0 15%
	19	Signing	1	Lump	\$2,000.00	\$2,000	
	20	Striping	1,000	ft	\$0.92	\$920	Assume 1-double yellow center line
	21	Signing/Striping Contingency					\$438 15%
	22	Guardrail	500	ft	\$20.00	\$10,000	
	23	Landscaping	4	Acre	\$4,050.00	\$14,175	area between edge of pavement and cut/fill line
	24	Fencing		0 ft	\$2.60	\$0	
	25	General Other Contingency					\$3,626 15%
	31	Subtotal					\$700,816
	32	Mobilization					\$140,163
	33	Traffic Control					\$70,082
	34	Traffic Control Contingency					\$10,512 15%
	35	Subtotal					\$921,573
	36	Design Egr.					\$92,157
	37	Const. Egr.					\$92,157
<b>SUBTOTAL</b>	<b>38</b>	<b>Subtotal</b>					<b>\$1,105,888</b>
Right-of-Way	39	Administration	1	Parcel	\$5,000	\$5,000	
	40	USFS	4	Acre	\$0	\$0	
	41	Relocation (out buildings)		0 Each	\$20,000	\$0	
	42	ROW From Private Entities		0 Acre	\$25,000	\$0	Easement
	43	R/W Contingency					\$750 15%
	<b>44</b>	<b>Total Roadway Elements--2006 USD</b>					<b>\$1,111,638</b>



Alternative Name: Pipe Creek Road - Corridor Plan Segment 1  
RP 7 - RP 12  
Length of Re-Alignment = 26400 ft

Category	Line Number <sup>1</sup>	Item Description	Quantity	Units	Unit Cost	Extended Cost	Notes
Demolition and Removal	1	Clearing and Grubbing	27	Acre	\$3,500.00	\$94,500	
	2	Demolition of Buildings	0	Each	\$5,000.00	\$0	
	3	Demolition of Bridges	0	Each	\$30,000.00	\$0	
	4	Demolition and Removal Contingency					\$14,175 15%
Earthwork and Grading	5	Unclassified Excavation	91,361	yd3	\$10.00	\$913,610	From Model
	6	Embankment in place	22,254	yd3	\$10.00	\$222,540	Pay for difference between cut and fill only (using 60% of cut)
	7	Earthwork and Grading Contingency					\$228,403 25%
General Drainage	8	Pipe Culverts, Catch Basins, etc.	1	Lump	\$33,733.00	\$235,434	Assumed replacing all crossing structures Except Bridge and Culvert Arch over Pipe Creek at RP 12 +/-
	9	Drainage Contingency					\$47,087 20%
Pavement (Reconstruct)	10	Pavement and Base	2,000	ft	\$40.68	\$81,360	Assume 3.6" superpave & 8" crushed aggregate
Pavement (24' Widening)	11	Pavement and Base	24,400	ft	\$29.79	\$726,876	Assume 3.6" superpave & 8" crushed aggregate
Pavement (22' Widening)	12	Pavement and Base	0	ft	\$26.74	\$0	Assume 3.6" superpave & 8" crushed aggregate
Pavement Rehabilitation	13	FDR w/ Foam mix	24,400	ft	\$21.11	\$515,084	Assume FDR w/ foam mix w 3% PG 58-28 PG binder and 1% cement
	13	Paving Contingency					\$202,059 25%
Structures	14	Bridge (2nd Level Concrete)	1	Each	\$30,000.00	\$30,000	cost of fixes identified in UDFS inspection report
	15	Retaining Walls	3,867	ft <sup>2</sup>	\$70.00	\$270,690	
	16	Structure Contingency					\$60,138 20%
General Utility Adjustments/Relocations	17	Adjust / Relocate Utility	1	Lump	\$45,680.50	\$45,681	Assumed to be 5% of earthwork and grading
	18	General Utility Adjustment / Relocation Contingency					\$6,852 15%
	19	Signing	1	Lump	\$15,380.00	\$15,380	
	20	Striping	26,400	ft	\$0.95	\$25,080	Assume 1-double yellow center line-6" wide
	21	Signing/Striping Contingency					\$6,069 15%
	22	Guardrail	1,000	ft	\$20.00	\$20,000	
	23	Landscaping	27	Acre	\$4,050.00	\$109,350	area between edge of pavement and cut/fill line
	24	Fencing	0	ft	\$2.60	\$0	
	25	General Other Contingency					\$19,403 15%
	31	Subtotal					\$3,667,229
	32	10% Mobilization					\$366,723
	33	2.5% Traffic Control					\$91,681
	34	Traffic Control Contingency					\$13,752 15%
	35	Subtotal					\$4,139,385
	36	10% Design Egr.					\$413,939
	37	10% Const. Egr.					\$413,939
<b>SUBTOTAL</b>	<b>38</b>	<b>Subtotal</b>					<b>\$4,967,262</b>
Right-of-Way	39	Administration	4	Parcel	\$5,000	\$20,000	
	40	USFS	38	Acre	\$0	\$0	
	41	Relocation (out buildings)	0	Each	\$20,000	\$0	
	42	ROW From Private Entities	1	Acre	\$25,000	\$25,000	Easement
	43	R/W Contingency					\$6,750 15%
	<b>44</b>	<b>Total Roadway Elements--2006 USD</b>					<b>\$5,019,012</b>



Alternative Name: Pipe Creek Road - Corridor Plan Segment 2  
RP 12 - RP 17  
Length of Re-Alignment = 26400 ft

Category	Line Number	Item Description	Quantity	Units	Unit Cost	Extended Cost	Notes
Demolition and Removal	1	Clearing and Grubbing	33	Acre	\$3,500.00	\$115,500	
	2	Demolition of Buildings	0	Each	\$5,000.00	\$0	
	3	Demolition of Bridges	0	Each	\$30,000.00	\$0	
	4	Demolition and Removal Contingency					\$17,325 15%
Earthwork and Grading	5	Unclassified Excavation	77,148	yd3	\$10.00	\$771,480	From Model
	6	Embankment in place	54,144	yd3	\$10.00	\$78,552	Pay for difference between cut and fill only (using 60% of cut)
	7	Earthwork and Grading Contingency					\$212,508 25%
General Drainage	8	Pipe Culverts, Catch Basins, etc.	1	Lump	\$90,801.00	\$235,434	Assumed replacing all crossing structures Except Bridge and Culvert Arch over Pipe Creek at RP 12 +/-
	9	Drainage Contingency					\$47,087 20%
Pavement (Reconstruct)	10	Pavement and Base	0	ft	\$40.68	\$0	Assume 3.6" superpave & 8" crushed aggregate
Pavement (24' Widening)	11	Pavement and Base	26,400	ft	\$29.79	\$786,456	Assume 3.6" superpave & 8" crushed aggregate
Pavement (22' Widening)	12	Pavement and Base	0	ft	\$26.74	\$0	Assume 3.6" superpave & 8" crushed aggregate
Pavement Rehabilitation	13	FDR w/ Foam mix	26,400	ft	\$21.11	\$557,304	Assume FDR w/ foam mix w 3% PG 58-28 PG binder and 1% cement
	14	Paving Contingency					\$196,614 25%
Structures	15	Bridge (2nd Level Concrete)	0	Each	\$30,000.00	\$0	
	16	Retaining Walls	3,562	ft <sup>2</sup>	\$70.00	\$249,340	
	17	Structure Contingency					\$49,868 20%
General Utility Adjustments/Relocations	18	Adjust / Relocate Utility	1	Lump	\$42,501.60	\$42,502	Assumed to be 5% of earthwork and grading
	19	General Utility Adjustment / Relocation Contingency					\$6,375 15%
	20	Signing	1	Lump	\$15,380.00	\$15,380	
	21	Striping	26,400	ft	\$0.95	\$25,080	Assume 1-double yellow center line-6" wide
	22	Signing/Striping Contingency					\$6,069 15%
	23	Guardrail	1,600	ft	\$20.00	\$32,000	
	24	Landscaping	33	Acre	\$4,050.00	\$133,650	area between edge of pavement and cut/fill line
	25	Fencing	0	ft	\$2.60	\$0	
	26	General Other Contingency					\$24,848 15%
	32	Subtotal					\$3,603,371
	33	10% Mobilization					\$360,337
	34	3.0% Traffic Control					\$108,101
	35	Traffic Control Contingency					\$16,215 15%
	36	Subtotal					\$4,088,025
	37	10% Design Egr.					\$408,802
	38	10% Const. Egr.					\$408,802
<b>SUBTOTAL</b>	<b>39</b>	<b>Subtotal</b>					<b>\$4,905,629</b>
Right-of-Way	40	Administration	13	Parcel	\$5,000	\$65,000	
	41	USFS	44	Acre	\$0	\$0	
	42	Relocation (out buildings)	0	Each	\$20,000	\$0	
	43	ROW From Private Entities	3	Acre	\$25,000	\$75,000	Easement
	44	R/W Contingency					\$21,000 15%
	<b>45</b>	<b>Total Roadway Elements--2006 USD</b>					<b>\$5,066,629</b>



Alternative Name: Pipe Creek Road - Corridor Plan Segment 3  
RP 17 - RP 20.1  
Length of Re-Alignment = 16368 ft

Category	Line Number <sup>1</sup>	Item Description	Quantity	Units	Unit Cost	Extended Cost	Notes
Demolition and Removal	1	Clearing and Grubbing	12	Acre	\$3,500.00	\$40,600	
	2	Demolition of Buildings	0	Each	\$5,000.00	\$0	
	3	Demolition of Bridges	0	Each	\$30,000.00	\$0	
	4	Demolition and Removal Contingency					\$6,090 15%
Earthwork and Grading	5	Unclassified Excavation	54,100	yd3	\$10.00	\$541,000	From Model
	6	Embankment in place	11,465	yd3	\$10.00	\$114,650	Pay for difference between cut and fill only (using 60% of cut)
	7	Earthwork and Grading Contingency					\$135,250 25%
General Drainage	8	Pipe Culverts, Catch Basins, etc.	1	Lump	\$110,900.00	\$235,434	
	9	Drainage Contingency					\$47,087 20%
Pavement (Reconstruct)	10	Pavement and Base	0	ft	\$40.68	\$0	Assume 3.6" superpave & 8" crushed aggregate
Pavement (24' Widening)	11	Pavement and Base	0	ft	\$29.79	\$0	Assume 3.6" superpave & 8" crushed aggregate
Pavement (22' Widening)	12	Pavement and Base	16,368	ft	\$26.74	\$437,680	Assume 3.6" superpave & 8" crushed aggregate
Pavement Rehabilitation	13	FDR w/ Foam mix	16,368	ft	\$21.11	\$345,528	Assume FDR w/ foam mix w 3% PG 58-28 PG binder and 1% cement
	13	Paving Contingency					\$109,420 25%
Structures	14	Bridge (2nd Level Concrete)	0	Each	\$30,000.00	\$0	
	15	Retaining Walls	31,043	ft <sup>2</sup>	\$70.00	\$2,173,010	
	16	Structure Contingency					\$434,602 20%
General Utility Adjustments/Relocations	17	Adjust / Relocate Utility	1	Lump	\$27,050.00	\$27,050	Assumed to be 5% of earthwork and grading
	18	General Utility Adjustment / Relocation Contingency					\$4,058 15%
	19	Signing	1	Lump	\$9,535.60	\$9,536	
	20	Striping	16,368	ft	\$0.95	\$15,550	Assume 1-double yellow center line-6" wide
	21	Signing/Striping Contingency					\$3,763 15%
	22	Guardrail	2,204	ft	\$20.00	\$44,080	
	23	Landscaping	12	Acre	\$4,050.00	\$48,600	area between edge of pavement and cut/fill line
	24	Fencing	0	ft	\$2.60	\$0	
	25	General Other Contingency					\$13,659 15%
	31	Subtotal					\$4,670,376
	32	10% Mobilization					\$467,038
	33	2.5% Traffic Control					\$116,759
	34	Traffic Control Contingency					\$17,514 15%
	35	Subtotal					\$5,271,687
	36	10% Design Egr.					\$527,169
	37	10% Const. Egr.					\$527,169
<b>SUBTOTAL</b>	<b>38</b>	<b>Subtotal</b>					<b>\$6,326,025</b>
Right-of-Way	39	Administration	1	Parcel	\$5,000	\$5,000	
	40	USFS	18	Acre	\$0	\$0	
	41	Relocation (out buildings)	0	Each	\$20,000	\$0	
	42	ROW From Private Entities	0	Acre	\$25,000	\$0	Easement
	43	R/W Contingency					\$750 15%
	<b>44</b>	<b>Total Roadway Elements--2006 USD</b>					<b>\$6,331,775</b>



Alternative Name: Pipe Creek Road - Corridor Plan Segment 3  
RP 17 - RP 20.1  
Length of Re-Alignment = 16368 ft

Category	Line Number <sup>1</sup>	Item Description	Quantity	Units	Unit Cost	Extended Cost	Notes
Demolition and Removal	1	Clearing and Grubbing	12	Acre	\$3,500.00	\$40,600	
	2	Demolition of Buildings	0	Each	\$5,000.00	\$0	
	3	Demolition of Bridges	0	Each	\$30,000.00	\$0	
	4	Demolition and Removal Contingency					\$6,090 15%
Earthwork and Grading	5	Unclassified Excavation	54,100	yd3	\$10.00	\$541,000	From Model
	6	Embankment in place	11,465	yd3	\$10.00	\$114,650	Pay for difference between cut and fill only (using 60% of cut)
	7	Earthwork and Grading Contingency					\$135,250 25%
General Drainage	8	Pipe Culverts, Catch Basins, etc.	1	Lump	\$110,900.00	\$235,434	
	9	Drainage Contingency					\$47,087 20%
Pavement (Reconstruct)	10	Pavement and Base	0	ft	\$40.68	\$0	Assume 3.6" superpave & 8" crushed aggregate
Pavement (24' Widening)	11	Pavement and Base	0	ft	\$29.79	\$0	Assume 3.6" superpave & 8" crushed aggregate
Pavement (22' Widening)	12	Pavement and Base	16,368	ft	\$26.74	\$437,680	Assume 3.6" superpave & 8" crushed aggregate
Pavement Rehabilitation	13	FDR w/ Foam mix	16,368	ft	\$21.11	\$345,528	Assume FDR w/ foam mix w 3% PG 58-28 PG binder and 1% cement
	13	Paving Contingency					\$109,420 25%
Structures	14	Bridge (2nd Level Concrete)	0	Each	\$30,000.00	\$0	
	15	Retaining Walls	31,043	ft <sup>2</sup>	\$70.00	\$2,173,010	
	16	Structure Contingency					\$434,602 20%
General Utility Adjustments/Relocations	17	Adjust / Relocate Utility	1	Lump	\$27,050.00	\$27,050	Assumed to be 5% of earthwork and grading
	18	General Utility Adjustment / Relocation Contingency					\$4,058 15%
	19	Signing	1	Lump	\$9,535.60	\$9,536	
	20	Striping	16,368	ft	\$0.95	\$15,550	Assume 1-double yellow center line-6" wide
	21	Signing/Striping Contingency					\$3,763 15%
	22	Guardrail	2,204	ft	\$20.00	\$44,080	
	23	Landscaping	12	Acre	\$4,050.00	\$48,600	area between edge of pavement and cut/fill line
	24	Fencing	0	ft	\$2.60	\$0	
	25	General Other Contingency					\$13,659 15%
	31	Subtotal					\$4,670,376
	32	10% Mobilization					\$467,038
	33	2.5% Traffic Control					\$116,759
	34	Traffic Control Contingency					\$17,514 15%
	35	Subtotal					\$5,271,687
	36	10% Design Egr.					\$527,169
	37	10% Const. Egr.					\$527,169
<b>SUBTOTAL</b>	<b>38</b>	<b>Subtotal</b>					<b>\$6,326,025</b>
Right-of-Way	39	Administration	1	Parcel	\$5,000	\$5,000	
	40	USFS	18	Acre	\$0	\$0	
	41	Relocation (out buildings)	0	Each	\$20,000	\$0	
	42	ROW From Private Entities	0	Acre	\$25,000	\$0	Easement
	43	R/W Contingency					\$750 15%
	<b>44</b>	<b>Total Roadway Elements--2006 USD</b>					<b>\$6,331,775</b>